

NO.	A	B	C	S	AREA OF = S(S-A)(S-B)(S-C)	AREA (SQM.)
g1	= 35.795	+ 26.857	+ 51.083	/ 2	= 58.886	208026.784
g2	= 21.696	+ 51.083	+ 44.434	/ 2	= 58.604	230520.748
						480.126
						936.225

ADDITION - GR(GROUND) COVERAGE
g1 = 21.6 X (85.106+85.106) X 30.7/860 - 0.5 X (85.106-30.33) X 45.036 = 91.409 sqm.
TOTAL = 91.409 sqm.

ADDITION - GR(GROUND) COVERAGE
g4 = 0.600 X 8.504 = 4.922 sqm.
TOTAL = 4.922 sqm.

DEDUCTION - GR(GROUND) COVERAGE
d = 0.450 X 1.850 = 0.833 sqm.
b = 0.450 X 1.905 = 0.877 sqm.
TOTAL = 1.710 sqm.

GROUND COVERAGE OF OFFICE TOWER = ADDITION (G1) + ADDITION (G2) + ADDITION (G3) - DEDUCTION (G4)
= 936.225 + 91.409 + 4.922 - 1.710
= 988.405 - 21.960
= 1030.845 SQM

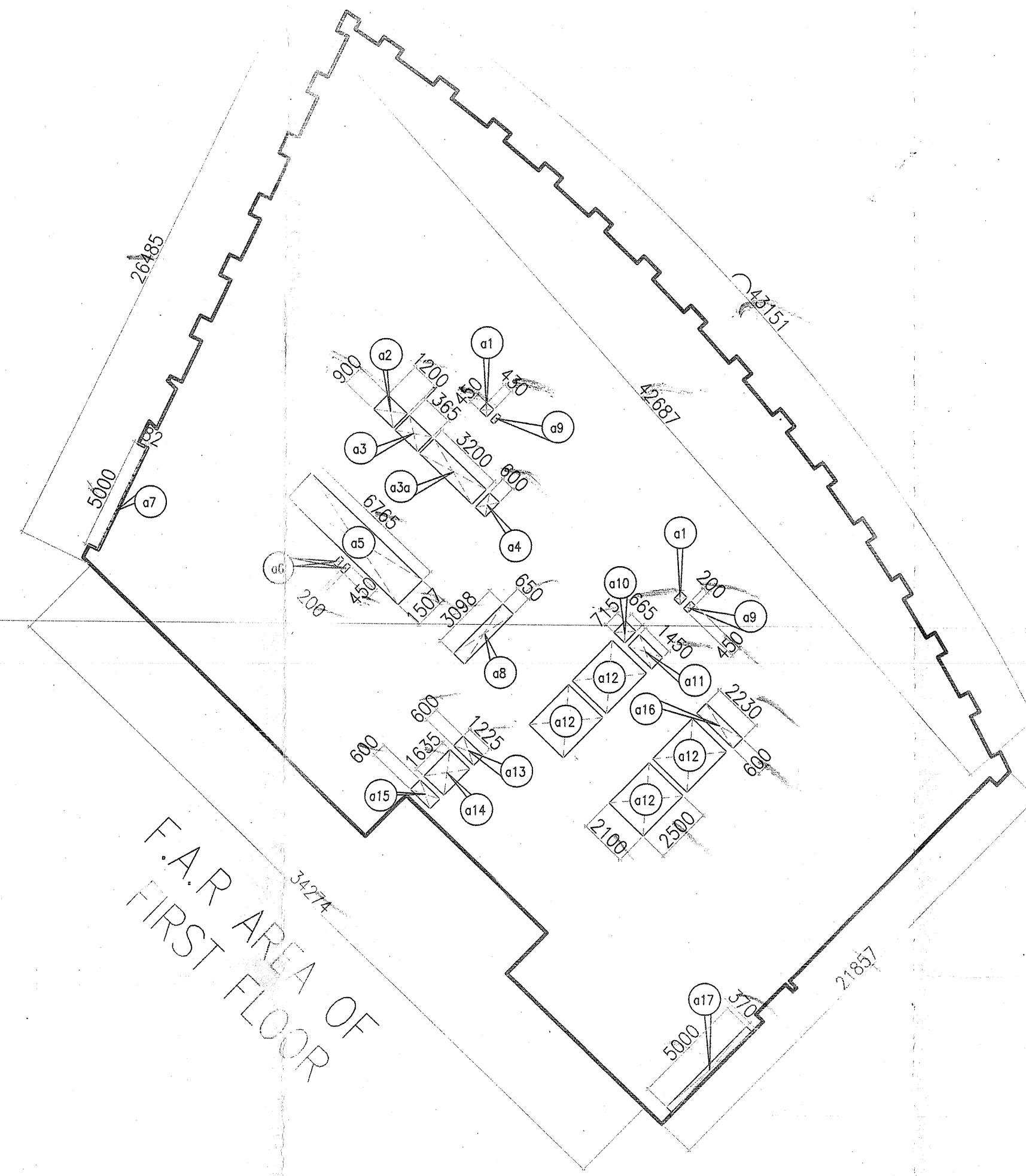
ADDITION - G(GROUND) FLOOR
g1 = 21.759 + 42.687 + 49.433 / 2 = 56.940
g2 = 49.433 + 34.274 + 26.485 / 2 = 55.096
g8 = 0.956 + 1.051 + 0.442 / 2 = 1.225
g9 = 1.051 + 1.270 + 0.818 / 2 = 1.570
g10 = 1.046 + 1.270 + 0.720 / 2 = 1.518
TOTAL = 895.086

ADDITION - G(GROUND) FLOOR
g3 = 0.5 X (0.115+0.201) X 0.535 X 2 = 0.169 sqm.
g3a = 0.5 X (1.106+0.950) X 0.453 = 0.464 sqm.
g3b = 0.5 X (0.597+0.748) X 0.453 = 0.305 sqm.
g4 = 0.535 X 1.000 X 5 = 2.675 sqm.
g5 = 0.5 X (0.988+0.890) X 0.537 = 0.499 sqm.
g6 = 0.152 X 0.446 = 0.068 sqm.
g7 = 1.000 X 0.442 X 14 = 6.188 sqm.
g11 = 12.604 X 0.605 = 7.625 sqm.
g12 = 0.450 X 0.230 = 0.104 sqm.
g13 = 2.080 X 0.597 = 1.242 sqm.
g14 = 6.355 X 1.047 = 6.654 sqm.
TOTAL = 25.992 sqm.

ADDITION - G(GROUND) FLOOR
g15 = 3.14 X (84.767+84.767) X (89.167/360 - 0.5 X (84.767-2.744) X 42.687 = 77.387 sqm.
TOTAL = 77.387 sqm.

DEDUCTION - G(GROUND) FLOOR
g1 = 8.680 X 2.530 = 21.960 sqm.
TOTAL = 21.960 sqm.

FAR AREA OF GROUND FLOOR = ADDITION (G1) + ADDITION (G2) + ADDITION (G3) - DEDUCTION (G4)
= 895.086 + 25.992 + 77.327 - 21.960
= 988.405 - 21.960
= 976.445 SQM



DEDUCTION - A(FIRST FLOOR)
a1 = 0.430 X 0.450 X 2 = 0.387 sqm.
a2 = 1.200 X 0.900 = 1.080 sqm.
a3 = 1.365 X 0.900 = 1.229 sqm.
a3a = 3.200 X 0.900 = 2.880 sqm.
a4 = 0.600 X 0.900 = 0.540 sqm.
a5 = 6.765 X 1.500 = 10.148 sqm.
a6 = 0.200 X 0.450 X 2 = 0.180 sqm.
a7 = 0.082 X 5.000 = 0.410 sqm.
a8 = 0.650 X 3.098 = 2.014 sqm.
a9 = 0.200 X 0.450 X 2 = 0.180 sqm.
a10 = 0.665 X 0.715 = 0.475 sqm.
a11 = 1.450 X 0.715 = 1.037 sqm.
a12 = 2.100 X 2.500 X 4 = 21.000 sqm.
a13 = 1.225 X 0.600 = 0.735 sqm.
a14 = 1.225 X 1.635 = 2.003 sqm.
a15 = 1.225 X 0.600 = 0.735 sqm.
a16 = 2.230 X 0.600 = 1.338 sqm.
a17 = 2.230 X 0.600 = 1.338 sqm.
a19 = 0.370 X 5.000 = 1.850 sqm.
TOTAL = 48.220 sqm.

FAR AREA OF FIRST FLOOR = TOTAL AREA OF GROUND FLOOR - DEDUCTION(A)
= 976.445 - 48.220
= 928.225 SQM

ADDITION - 1(TYPICAL FLOOR)
1 = 0.5 X (43.667+35.795) X 21.863 = 862.080 sqm.
TOTAL = 862.080 sqm.

ADDITION - 2(TYPICAL FLOOR)
NO. A B C S AREA OF = S(S-A)(S-B)(S-C) AREA (SQM.)
2 = 44.420 + 43.667 + 3.820 / 2 = 45.854
TOTAL = 693.263 = 78.059

ADDITION - 3(TYPICAL FLOOR)
3 = 3.14 X (85.192+85.192) X 30.224/360 - 0.5 X (85.192-2.947) X 44.420 = 86.611 sqm.
TOTAL = 86.611 sqm.

DEDUCTION - 1(TYPICAL FLOOR)
d1 = 0.430 X 0.450 X 2 = 0.387 sqm.
d2 = 1.200 X 0.900 = 1.080 sqm.
d3 = 1.365 X 0.900 = 1.229 sqm.
d3a = 3.200 X 0.900 = 2.880 sqm.
d4 = 0.600 X 0.900 = 0.540 sqm.
d5 = 6.765 X 1.500 = 10.148 sqm.
d6 = 0.200 X 0.450 X 2 = 0.180 sqm.
d7 = 0.475 X 1.950 = 0.926 sqm.
d8 = 0.650 X 3.098 = 2.014 sqm.
d9 = 0.200 X 0.450 X 2 = 0.180 sqm.
d10 = 0.665 X 0.715 = 0.475 sqm.
d11 = 1.450 X 0.715 = 1.037 sqm.
d12 = 2.100 X 2.500 X 4 = 21.000 sqm.
d13 = 1.225 X 0.600 = 0.735 sqm.
d14 = 1.225 X 1.635 = 2.003 sqm.
d15 = 1.225 X 0.600 = 0.735 sqm.
d16 = 2.230 X 0.600 = 1.338 sqm.
d17 = 8.685 X 2.530 = 21.973 sqm.
d18 = 0.450 X 1.850 = 0.833 sqm.
d19 = 0.220 X 0.218 = 0.048 sqm.
TOTAL = 69.740 sqm.

FAR AREA OF 2nd, 4th, 6th, 8th & 12th (TYPICAL) FLOOR = ADDITION(1) + ADDITION(2) + ADDITION(3) - DEDUCTION(A)
= 862.080 + 78.059 + 86.611 - 69.740
= 1026.75 - 69.740
= 957.01 SQM

ADDITION - 1
1 = 0.5 X (43.598+36.395) X 21.639 = 865.484 sqm.
TOTAL = 865.484 sqm.

ADDITION - 2
NO. A B C S AREA OF = S(S-A)(S-B)(S-C) AREA (SQM.)
2 = 4.056 + 43.598 + 45.044 / 2 = 46.349
TOTAL = 7337.363 = 83.889

ADDITION - 3
3 = 3.14 X (85.079+85.079) X 30.704/360 - 0.5 X (85.079-3.035) X 45.044 = 90.502 sqm.
TOTAL = 90.502 sqm.

DEDUCTION - A
a1 = 0.430 X 0.450 X 2 = 0.387 sqm.
a2 = 1.200 X 0.900 = 1.080 sqm.
a3 = 1.365 X 0.900 = 1.229 sqm.
a3a = 3.200 X 0.900 = 2.880 sqm.
a4 = 0.600 X 0.900 = 0.540 sqm.
a5 = 6.765 X 1.500 = 10.148 sqm.
a6 = 0.200 X 0.450 X 2 = 0.180 sqm.
a7 = 0.475 X 1.950 = 0.926 sqm.
a8 = 0.650 X 3.098 = 2.014 sqm.
a9 = 0.200 X 0.450 X 2 = 0.180 sqm.
a10 = 0.665 X 0.715 = 0.475 sqm.
a11 = 1.450 X 0.715 = 1.037 sqm.
a12 = 2.100 X 2.500 X 4 = 21.000 sqm.
a13 = 1.225 X 0.600 = 0.735 sqm.
a14 = 1.225 X 1.635 = 2.003 sqm.
a15 = 1.225 X 0.600 = 0.735 sqm.
a16 = 2.230 X 0.600 = 1.338 sqm.
a17 = 8.685 X 2.530 = 21.973 sqm.
a18 = 0.450 X 1.850 = 0.833 sqm.
a19 = 0.220 X 0.218 = 0.048 sqm.
a20 = 0.600 X 13.435 = 8.061 sqm.
TOTAL = 77.801 sqm.

FAR AREA OF 9th & 10th FLOOR = ADDITION(1) + ADDITION(2) + ADDITION(3) - DEDUCTION(A)
= 865.484 + 83.889 + 90.502 - 77.801
= 1039.875 - 77.801
= 962.074 SQM

ADDITION - 1(TYPICAL FLOOR)
1 = 0.5 X (43.067+35.795) X 21.863 = 862.080 sqm.
TOTAL = 862.080 sqm.

ADDITION - 2(TYPICAL FLOOR)
NO. A B C S AREA OF = S(S-A)(S-B)(S-C) AREA (SQM.)
2 = 44.420 + 43.067 + 3.820 / 2 = 45.854
TOTAL = 693.263 = 78.059

ADDITION - 1(TYPICAL FLOOR)
3 = 3.14 X (85.192+85.192) X 30.224/360 - 0.5 X (85.192-2.947) X 44.420 = 86.611 sqm.
TOTAL = 86.611 sqm.

DEDUCTION - 1(TYPICAL FLOOR)
a1 = 0.430 X 0.450 X 2 = 0.387 sqm.
a2 = 1.200 X 0.900 = 1.080 sqm.
a3 = 1.365 X 0.900 = 1.229 sqm.
a3a = 3.200 X 0.900 = 2.880 sqm.
a4 = 0.600 X 0.900 = 0.540 sqm.
a5 = 6.765 X 1.500 = 10.148 sqm.
a6 = 0.200 X 0.450 X 2 = 0.180 sqm.
a7 = 0.475 X 1.950 = 0.926 sqm.
a8 = 0.650 X 3.098 = 2.014 sqm.
a9 = 0.200 X 0.450 X 2 = 0.180 sqm.
a10 = 0.665 X 0.715 = 0.475 sqm.
a11 = 1.450 X 0.715 = 1.037 sqm.
a12 = 2.100 X 2.500 X 4 = 21.000 sqm.
a13 = 1.225 X 0.600 = 0.735 sqm.
a14 = 1.225 X 1.635 = 2.003 sqm.
a15 = 1.225 X 0.600 = 0.735 sqm.
a16 = 2.230 X 0.600 = 1.338 sqm.
a17 = 8.685 X 2.530 = 21.973 sqm.
a18 = 0.450 X 1.850 = 0.833 sqm.
a19 = 0.220 X 0.218 = 0.048 sqm.
TOTAL = 69.740 sqm.

FAR AREA OF 3rd, 5th, 7th & 11th (TYPICAL) FLOOR = ADDITION(1) + ADDITION(2) + ADDITION(3) - DEDUCTION(A)
= 862.080 + 78.059 + 86.611 - 69.740
= 1026.75 - 69.740
= 957.01 SQM

ADDITION - 4(13th & 14th FLOOR)
4 = 3.14 X (83.181+83.181) X 28.002/360 - 0.5 X (83.181-2.471) X 40.2490 = 65.665 sqm.
TOTAL = 65.665 sqm.

ADDITION - 5(13th & 14th FLOOR)
NO. A B C S AREA OF = S(S-A)(S-B)(S-C) AREA (SQM.)
5 = 40.250 + 38.882 + 3.815 / 2 = 41.414
TOTAL = 4932.094 = 70.371

ADDITION - 6(13th & 14th FLOOR)
6 = 0.5 X (38.882+32.638) X 18.756 = 670.724 sqm.
TOTAL = 670.724 sqm.

DEDUCTION - 4(13th & 14th FLOOR)
a1 = 0.200 X 0.450 X 2 = 0.180 sqm.
a2 = 1.200 X 0.900 = 1.080 sqm.
a3 = 1.365 X 0.900 = 1.229 sqm.
a3a = 3.200 X 0.900 = 2.880 sqm.
a4 = 0.600 X 0.900 = 0.540 sqm.
a5 = 6.765 X 1.500 = 10.148 sqm.
a6 = 0.200 X 0.450 X 2 = 0.180 sqm.
a7 = 0.650 X 3.098 = 2.014 sqm.
a8 = 0.430 X 0.450 X 2 = 0.387 sqm.
a9 = 0.200 X 0.715 = 0.143 sqm.
a10 = 1.450 X 0.715 = 1.037 sqm.
a11 = 2.100 X 2.500 X 4 = 21.000 sqm.
a12 = 1.225 X 0.600 = 0.735 sqm.
a13 = 1.225 X 1.635 = 2.003 sqm.
a14 = 1.225 X 0.600 = 0.735 sqm.
a15 = 2.230 X 0.600 = 1.338 sqm.
a16 = 8.680 X 1.000 = 8.680 sqm.
TOTAL = 54.307 sqm.

FAR AREA OF 13th & 14th FLOOR = ADDITION(4) + ADDITION(5) + ADDITION(6) - DEDUCTION(A)
= 65.665 + 70.371 + 670.724 - 54.307
= 806.76 - 54.307
= 752.453 SQM

Note:-
1. BUILDING WILL BE DESIGNED (STRUCTURES) AS PER RELEVANT IS CODES FOR EARTH QUAKE RESISTANCE.
2. THE BUILDING COMPLY WITH FIRE NORMS

LEGEND:-

Project:
PROPOSED COMMERCIAL COLONY AREA MEASURING 2.961 ACRES. (LICENCE NO. 110 OF 2010 DATED 29-12-2010) IN SECTOR-82-A, GURGAON MANESAR URBAN COMPLEX BEING DEVELOPED BY SH. TEJPAL S/O SH. BADAM SINGH AND SMT. SAKUNTALA DEVI W/O SH. TEJPAL IN COLLABORATION WITH M/S VATIKA LTD.

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JULY-2011 Scale: 1:200
Drawing Title:- AREA CALCULATION OF ALL FLOOR (BLOCK-D)
Drawing No:- D-05
VATIKA TOWN SQUARE